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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

August 29, 2013

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8505815, issued to DEEM, J. F. OIL & GAS, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: 1

Farm Name: PIERCE, HAROLD KEITH

**API Well Number: 47-8505815**

**Permit Type: Plugging**

Date Issued: 08/29/2013

**Promoting a healthy environment.**

8505815P  
1) Date July 30, 2013  
2) Operator's  
Well No. DeBerry 1  
3) API Well No. 47-085-05815

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil \_\_\_\_/ Gas x/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production \_\_\_\_ or Underground storage \_\_\_\_) Deep \_\_\_\_/ Shallow \_\_\_\_
- 5) Location: Elevation 925 Watershed Brushy Fork  
District Union County Ritchie Quadrangle Oxford
- 6) Well Operator J F DEEM OIL & GAS CO  
Address 4541 Emerson Avenue  
Parkersburg, WV 26104
- 7) Designated Agent J F DEEM  
Address 4541 Emerson Ave  
Parkersburg, WV 26104
- 8) Oil and Gas Inspector to be notified  
Name David Cowan  
Address Rt 1, Box 202  
Harrisville, WV 26362
- 9) Plugging Contractor  
Name Lucas Well Service Inc  
Address P O Box 4652  
Parkersburg, WV 26104
- 
- 10) Work Order: The work order for the manner of plugging this well is as follows:

See Attached

RECEIVED  
Office of Oil and Gas

AUG 27 2013

WV Department of  
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 8-19-13

## DeBerry # 1

## Manner of Plugging

47-085-05815

Cement 2150 - 1950

Gel 1950 - 1050

Cement ~~1100'~~ 1050 - 900

IF Cut 4 1/2" casing @ 1050 (or free point) and pull

Gel 900 - ~~100~~ 300'Cement ~~300'~~ 100 - surface

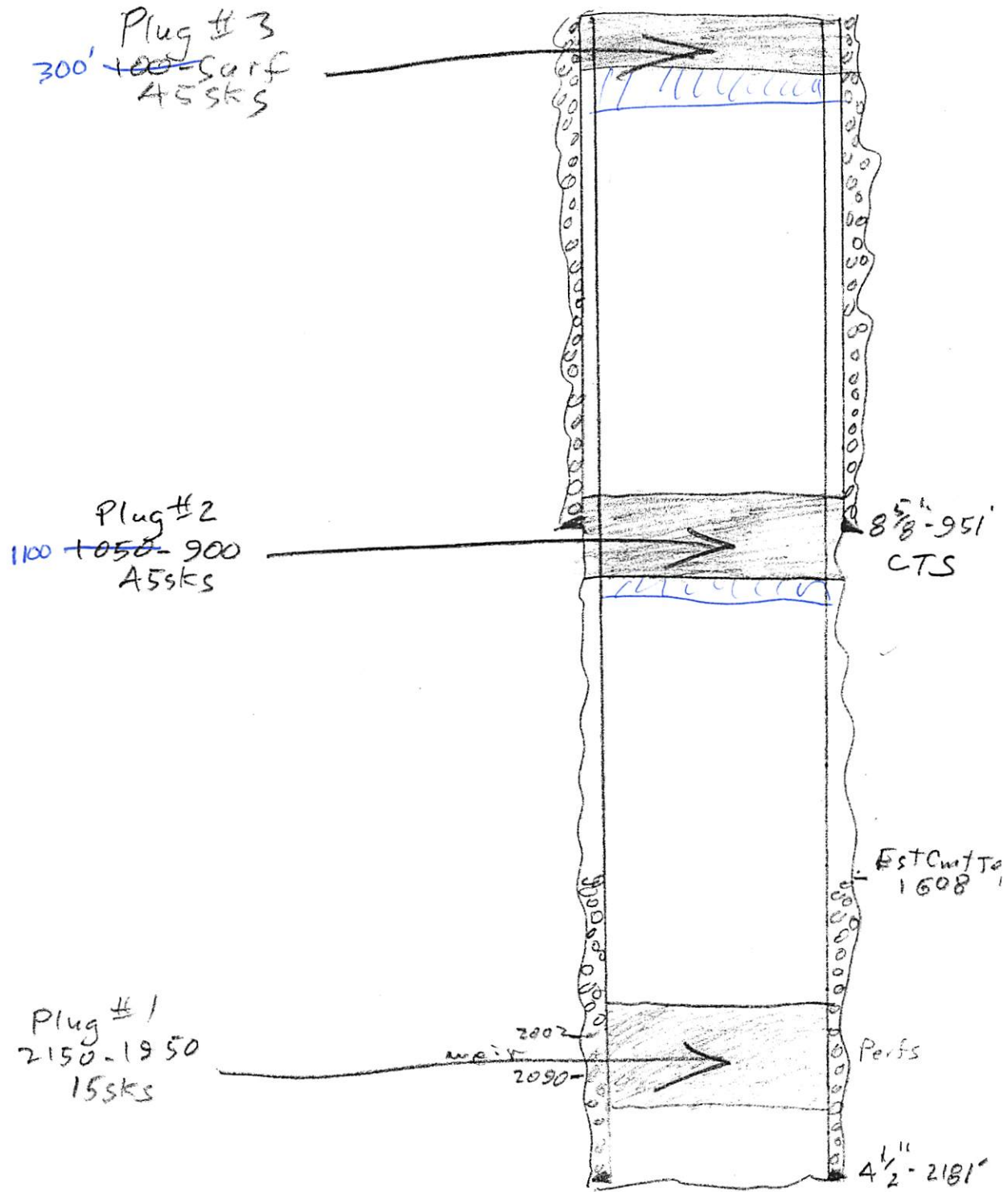
Erect monument w/API Number

CASING CUTS NEED 50' CEMENT  
ABOVE CUT & 50' CEMENT BELOW CUT,

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WV Department of  
Environmental Protection

DeBerry #1  
47-085-05815

8505815P



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AUG 27 2013

WV Department of  
Environmental Protection



8505815 P


 IV-35  
 (Rev 9-85)

**RECEIVED**

OCT 22 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines  
Oil and Gas Division

Date October 21, 1982

Operator's

Well No. 1

Farm DeBerry

API No. 47 - 285 - 5015

## WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

 WELL TYPE: Oil ☒ / Gas ☒ / Liquid Injection ☐ / Waste Disposal ☐  
 (If "Gas," Production ☒ / Underground Storage ☐ / Deep ☐ / Shallow ☐)

LOCATION: Elevation: 925' Watershed Brush Run

District: Union County Ritchie Quadrangle Oxford

COMPANY Petroleum Resources, Inc.

ADDRESS Box 1066, Weston, WV 26452

DESIGNATED AGENT Jerry Pascher

ADDRESS Box 1066, Weston, WV 26452

SURFACE OWNER Harold Keith Hirsch

ADDRESS Rt. 1, West Union, WV 26456

MINERAL RIGHTS OWNER Lucille DeBerry

ADDRESS 117 West North St. Harrisville, WV

OIL AND GAS INSPECTOR FOR THIS WORK Samuel

Hersman ADDRESS Smithville, WV

PERMIT ISSUED August 17, 1982

DRILLING COMMENCED August 29, 1982

DRILLING COMPLETED September 4, 1982

 IF APPLICABLE: PLUGGING OF DRY HOLE ON  
 CONTINUOUS PROGRESSION FROM DRILLING OR  
 REMORKING. VERBAL PERMISSION OBTAINED  
 ON Sept. 4, 1982 Samuel Hersman

Casing & Tubing	Used in Drilling	Left in Well	Current fill up Cu. ft.
Size 20-16 Cord.			
13-10"	30'	2	
9 5/8			
8 5/8	951'	951'	225 sks.
7			
5 1/2			
4 1/2	2181'	2181'	100 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk

Depth 5530 feet

Depth of completed well 5204 feet Rotary ☒ / Cable Tools

Water strata depth: Fresh 90-270 feet; Salt None feet

Coal seam depths: None Is coal being mined in the area? No

## OPEN FLOW DATA

Producing formation Bear Pay zone depth 2090-2002 feet

Gas: Initial open flow Show Mcf/d Oil: Initial open flow Show bbl/d

Final open flow 300 Mcf/d Final open flow 4 bbl/d

Time of open flow between initial and final tests 8 hours

Static rock pressure 720 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow bbl/d

Final open flow Mcf/d Oil: Final open flow bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

8505815P

FORM IV-35  
(REVERSE)

RIT-5815

## DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WEIR Perforated 2090' to 2002' 16 holes  
Fractured with 600 bbls. Treated Water  
30,000 # Sand, 500 gals. Acid

## WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	10	
Shale			10	60	
Sand			60	110	
Red Rock & Shale			110	198	
Sand			198	300	
Red Rock			300	349	
Sandy Shale			349	560	
Shale			560	680	
Red Rock			680	720	
Shale			720	840	
Sand			840	870	
Shale			870	930	
Sand			930	990	
Shale			990	1530	
Sand			1530	1535	
Shale			1535	1635	
Lime & Sand			1635	1700	
Shale			1700	1715	
Lime Sig			1715	1790	
Sand			1790	1860	
Shale			1860	2005	
Sand			2005	2126	
Shale			2126	2345	
Sand			2345	2375	
Shale			2375	2755	
Sand/			2755	2905	
Shale			2905	3040	
Sand			3040	3365	
Shale			3365	3840	
Sandy Shale			3840	3870	
Shale			3870	5204	
TOTAL DEPTH				5204	

Well was plugged back to 2500' with 6% col and a plug of 100' of cement from 2500' to 2400' then 4 1/2" casing was cemented.

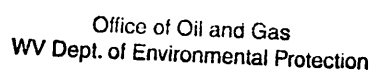
(Attach separate sheets as necessary)

Well Operator Petroleum Resources, Inc.  
By: [Signature] Agent  
Date: October 21, 1982

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

Received

14



WW-4A  
Revised 6-07

CK# 14418  
\$200.00  
(2 permits)

8505815 P

1) Date: July 30, 2013

2) Operator's Well Number  
DeBerry 1

3) API Well No.: 47 - 085 - 05815

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:

(a) Name Harold Keith Pierce  
Address 3797 Brushy Fork Rd  
West Union, WV 26456

(b) Name  
Address

(c) Name  
Address

6) Inspector

Address

Telephone

5) (a) Coal Operator

Name

Address

(b) Coal Owner(s) with Declaration

Name

Address

Name

Address

(c) Coal Lessee with Declaration

Name

Address

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator

J F DEEM OIL & GAS CO

By:

Its:

Address

Telephone

OWNER

4541 EMERSON AVENUE

PARKERSBURG, WV 26104

304 428-0005



Subscribed and sworn before me this 12th day of August, 2013

Melinda K. Johnson

My Commission Expires

July 9, 2017

Notary Public

Received

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

Office of Oil and Gas

WV Dept. of Environmental Protection



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name J F Deem Oil & Gas Co OP Code 307118

Watershed Brush Run Quadrangle Oxford

Elevation 925 County Ritchie District Union

Description of anticipated Pit Waste: Fluids from plugging operations

Will a synthetic liner be used in the pit? As needed *IF PIT IS USED MUST BE LINED WITH 20 MIL. LINER gmm*

Proposed Disposal Method For Treated Pit Wastes:

- ☒ Land Application  
☐ Underground Injection ( UIC Permit Number \_\_\_\_\_ )  
☐ Reuse (at API Number \_\_\_\_\_ )  
☐ Off Site Disposal (Supply form WW-9 for disposal location)  
☐ Other (Explain \_\_\_\_\_ )

Proposed Work For Which Pit Will Be Used:

- ☐ Drilling ☐ Swabbing  
☐ Workover ☒ Plugging  
☐ Other (Explain \_\_\_\_\_ )

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature J F Deem

Company Official (Typed Name) J F DEEM

Company Official Title OWNER

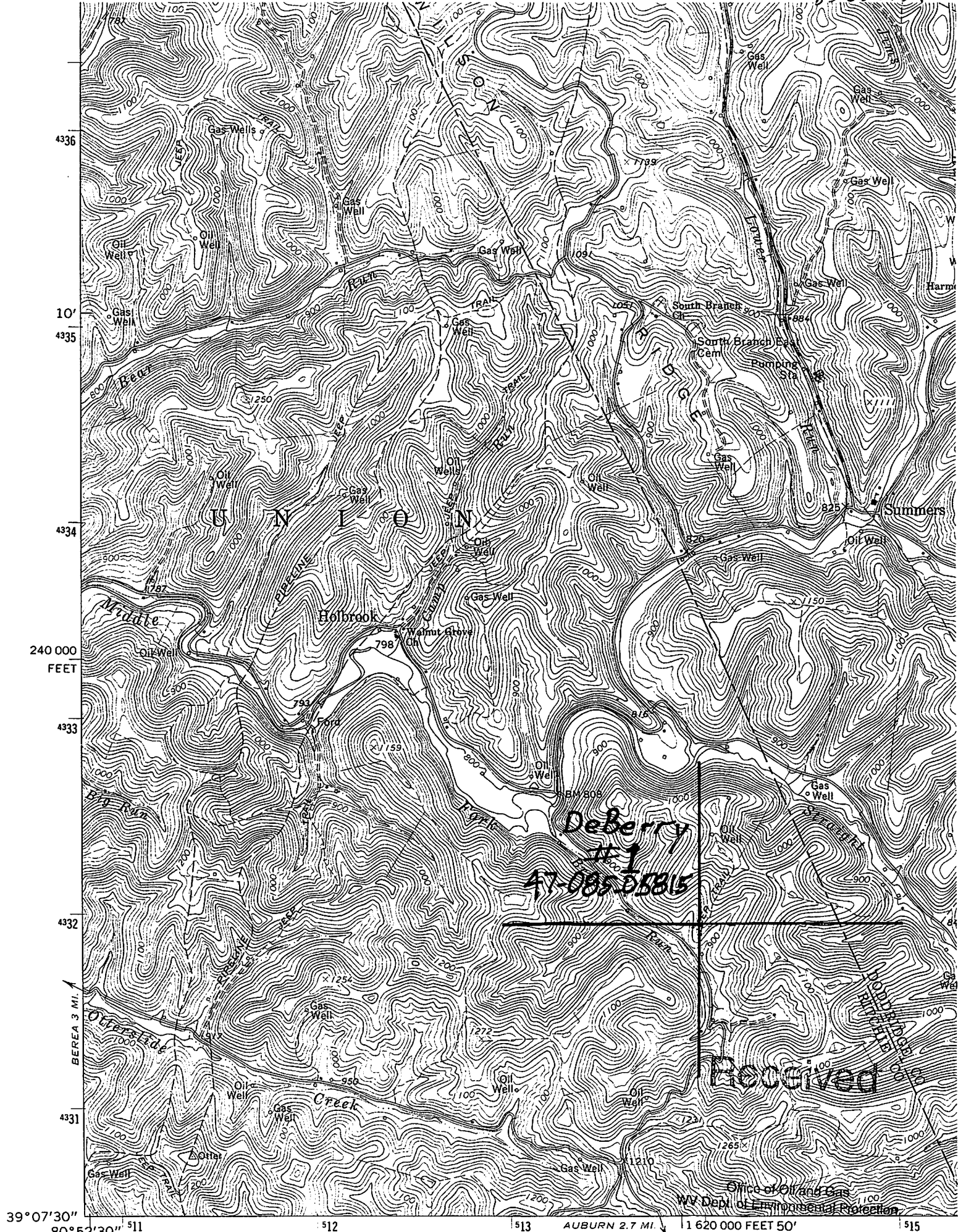
Subscribed and sworn before me this 12th day of August, 2013

Melinda K. Johnson Notary Public

My commission expires July 9, 2013

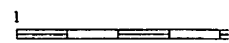


8505815 P



Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS

HOUSE  
SW





WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-085-05815 WELL NO.: DeBerry # 1  
FARM NAME: Harold Keith Pierce  
RESPONSIBLE PARTY NAME: J F Deem  
COUNTY: Ritchie DISTRICT: Union  
QUADRANGLE: Oxford  
SURFACE OWNER: Harold Keith Pierce  
ROYALTY OWNER: DeBerry  
UTM GPS NORTHING: 4,332,163  
UTM GPS EASTING: 513,993 GPS ELEVATION: 282M 925'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:  
Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

Mapping Grade GPS X: Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

J F Deem  
Signature

Owner

Title

8-5-13

Office of Oil and Gas  
WV Dept. of Environmental Protection

Received  
AUG 14 2013